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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/596,923	06/29/2006	Bernardus H.W. Hendriks	GB040226	2372	
	7590 03/27/200 LLECTUAL PROPER		GB040226 EXAMINER GUADALUPE, YARITZ ART UNIT PAPE 2841 MAIL DATE DELI	INER	
P.O. BOX 3001		GUADALUPE, YARITZA		·	
BRIARCLIFF	MANOR, NY 10510		ART UNIT PAPER NUMBER		
			2841		
			MAIL DATE	DELIVERY MODE	
			03/27/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commons	10/596,923	HENDRIKS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yaritza Guadalupe-McCall	2841				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addı	ress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this com D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	- action is non-final.					
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the r	merits is			
closed in accordance with the practice under E	x <i>parte Quayle</i> , 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	r.					
10)⊠ The drawing(s) filed on <u>29 June 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTC)-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		-(d) or (f).				
1. Certified copies of the priority documents						
2. Certified copies of the priority documents	• •					
3. Copies of the certified copies of the prior	•	d in this National S	tage			
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application				
	, 					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 – 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Atarashi et al. (US 6,891,679).

With respect to claim 1, the method of detecting an orientation of a device (1) with respect to a direction of an acceleration force, comprising providing a device (1) having an optical device (2) comprising a first liquid (LQ1) and a second liquid (LQ2), said liquids being immiscible, having different refractive indices and different densities (See Column 9, lines 7 – 20) and being in contact with each other via an interface (See LQ1 and LQ2 in Figure 10); and a sensor (S, being a CCD sensor as stated in column 8, lines 12 – 13) comprising a grid of pixels (integral to said CCD image pickup element); sensing an image captured by the optical device (2) on a subset of the grid of pixels (22); and calculating the orientation of the

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device (1) from the position of the subset on the grid will be achieved by the regular operation of the device disclosed by Atarashi et al.

In regards to claim 2, the method wherein the acceleration force is gravity is disclosed by the device shown by Atarashi et al.

Regarding claim 3, Atarashi et al. discloses a device (1) comprising an optical device (2) comprising a first liquid (LQ1) and a second liquid (LQ2), said liquids being immiscible, having different refractive indices and different densities (See Column 9, lines 7 – 20) and being in contact with each other via an interface (See LQ1 and LQ2 in Figure 9); a sensor (S, being a CCD sensor as indicated in Column 8 lines 12 – 13) comprising a grid of pixels (integral to said CCD image pickup element), the sensor (S) being arranged to sense an image captured by the optical device (1) on a subset of the grid of pixels; and calculating means (CTR) for calculating an orientation of the device (1) with respect to a direction of an acceleration force from the position of the subset on the grid.

With regards to claim 4, Atarashi et al. discloses a device (1) wherein the first liquid (LQ1) is an electrically susceptible liquid (salt solution, column 9, line 9).

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In regards to claim 5, Atarashi et al. sets forth a device (1) wherein the optical device (2) further comprises an electrode structure (P1, P2) in conductive contact with the first liquid (LQ1), and wherein the device (1) further comprises driver circuitry (Figure 10) coupled to the electrode structure (PL1, PL2).

Regarding claim 6, Atarashi et al. teaches a device (1) wherein the second liquid (LQ2) comprises a mixture of oils (See Column 9, line 12).

With respect to claim 7, Atarashi et al. shows a device wherein the calculating means (CTR) comprise a memory element (M) for storing calibration data, the calculating means being arranged to calculate the orientation using the calibration data.

In regards to claim 8, Atarashi et al. further discloses a device further comprising a light source (F) in front of the optical device (2, See figure 9).

Regarding claim 9, Atarashi et al. sets forth a device (1) wherein the light source (F) is removable (as it would need to allow for replacements when needed).

With regards to claim 10, Atarashi et al. teaches a device wherein the acceleration force is gravity.

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Yaritza Guadalupe-McCall whose telephone number is (571)272-

2244. The examiner can normally be reached on 8:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Dean Reichard can be reached on (571) 272-1984. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

YGM

March 23, 2009

/Yaritza Guadalupe-McCall/ Primary Examiner, Art Unit 2841 Application/Control Number: 10/596,923

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